

2003 UPDATES

## International Residential Code

Code Section		Section Title	Change
2003	2000		
R101.3	R101.3	Purpose	Section has been rewritten to reflect the purpose as written in the IBC.
R202	R202	Definitions	Includes new definitions for the following: aspect ratio, fiber cement siding, masonry heaters, portable fuel cell appliance, stationary fuel cell power plant, structure, sunroom addition, vapor permeable membrane, and winder.
R301.1.3	R301.1.2	Engineered design	Adds text which permits engineered design in accordance with the IBC.
Table R301.2(1)	Table R301.2(1)	Climatic and geographic design criteria	Column added for ice shield underlayment requirement.
R302.1	R302.1	Exterior walls	Restricts projections within 2 feet of the line used to determine fire separation distances.
R303.2	R303.2	Adjoining rooms	Revised to provide ventilation requirements for sunrooms and patio covers.
R303.4.1	NEW	Intake openings	Mechanical and gravity outside air intake openings are required to be located a minimum of 10 feet from sources of hazardous or noxious contaminants or 2 feet below the source.
R303.6	R303.4	Stairway illumination	Requires artificial light for interior stairs to be not less than 1 foot-candle at center of treads and landings.
R303.8	R303.6	Required heating	Revised to prohibit the use of portable space heaters to achieve compliance.
R304.3	R304.3	Minimum room sizes	Kitchens are now listed as an exception to the 70-square-foot minimum room area requirement.
R305.1	R305.1	Minimum height	Requires the ceiling height in bathrooms above plumbing fixtures to be at least 6 feet 8 inches. Also stipulates 30 inches by 30 inches space required at the showerhead.
R308.4	R308.4	Hazardous locations	Item #10 has been rewritten. Item #11 applies when the surface of the glass is less than 60 inches "above the nose of the tread."
R309.2	R309.2	Separation required	Garages with habitable rooms above them shall be separated from the room with at least 5/8 inches Type X gypsum board or equivalent (installed perpendicular to framing in accordance with Table 702.3.5).
R311	R311	Means of egress  Three Steps No Handrail Required	<p>R311 has been reorganized to include doors, landings, under-stair protection, hallways, stairways, handrails, and ramps.</p> <p><u>Section 311.4.3</u> (Landings at doors) has two rewritten exceptions: Exception 1, the reference to sliding doors was deleted, and exterior stairways of two or fewer risers, other than the required exit door, are exempt from landing requirements. Exception 2, the maximum 8-inch rise for thresholds at exterior door landings has been revised to 7¼ inches.</p> <p><u>Section R311.5.2</u> changes the minimum tread width required for winders, including winders at circular stairs, from 11 inches to 10 inches, as measured from the narrow side.</p> <p><u>Section R311.5.4</u> limits each flight of stairs to a vertical rise of 12 feet between floor levels or landings.</p> <p><u>Section R311.5.6</u> requires handrails on at least one side of stairs with four (previously two) or more risers.</p> <p><u>Section R311.5.6.3</u> handrail grip size requirements have been completely rewritten and include classifications of Type I and II handrails.</p>

R312.2	R316.2	Guardrail opening limitations	Ladder effect restriction removed. On open-sided stairs, opening restriction changed to 4 1/8 inches.
R314.2.7	318.2	Foam plastic/Sill plates and headers	New section allows spray-applied foam plastic application to sill plates and headers, but restricts density and thickness of application.
R315.4	NEW	Alternate Test Method	Allows wall and ceiling finishes to be tested in accordance with NFPA 286 (as an alternative to flame spread and smoke developed index requirements tested in accordance with ASTM E84).
R319.1	R323.1	Protection against decay/Location required	Exception 2 revised to require all wood framing (previously only studs and plates) which rests on concrete or masonry exterior foundation walls and is less than 8 inches from exposed ground to be pressure preservative treated.
R322.1	R326	Accessibility/Scope	New language specifies that where there are four or more dwelling or sleeping units in a single structure, Chapter 11 (Accessibility) of the IBC applies.
R323.1.5	R327.1.5	Protection of mechanical and electrical systems	Many mechanical, plumbing, electrical, and fuel gas sections have been revised to refer to this section for locations and installations of equipment and systems in areas prone to flooding.
R323.3.4	NEW	Walls below design flood elevation	New section addresses components that penetrate walls designed to break away under flood loads.

Code Section		Section Title	Change
2003	2000		
R401.1	R401.1	Foundations/ Application	Revised to limit the applicability of the prescriptive requirements of the IRC to foundations in which the intervals between interior basement and foundation walls do not exceed 50 feet.
Table R403.1	Table R403.1	Minimum width of concrete or masonry footings	Increases the width requirements for footings constructed on soils with bearing capacities of 1,000, 2,000, and $\geq 4,000$ psi.
R403.1.4 R403.1.4.1	R403.1.4	Minimum depth Frost protection	These code sections have been revised and expanded to exempt foundations in the following structures from the requirements to extend below the frost line: 1) Decks not supported by a dwelling unit. 2) Freestanding accessory structures < 400 feet in area <u>or</u> with an eave height $\leq 10$ feet.
R403.3	R403.3	Frost-protected shallow foundations	This section has been revised and Sections R403.3.1, R403.3.1.1, and R403.1.2 have been added to provide prescriptive requirements for frost-protected shallow foundations attached to: unheated slab-on-ground structures; heated structures; and foundations extending below the frost line in accordance with Section R403.1.4.
R408.3	R408.3	Access (crawl space)	Access to the crawl space through the perimeter wall has new minimum dimensions of 16 inches by 24 inches. Such access cannot be located directly under a doorway.

Code Section		Section Title	Change
2003	2000		
R502.3.3	NEW	Floor cantilevers	This new section contains prescriptive requirements for cantilevered wood joist design. Cantilevered portions of wood joists are not to exceed the depth of the member or values as set forth in Table R502.3.3(1). Backspan requirement is 3 to 1.
R502.4	R502.4	Joists under bearing partitions	Joists under bearing partitions are to be adequately sized to support the loads imposed. (Double joists may no longer be adequate under some conditions.)
R506.2.3	R506.2.3	Vapor retarder	Vapor barrier requirements beneath concrete slab-on-grade construction deleted for garages.

Code Section		Section Title	Change
2003	2000		
Table R602.3	Table R602.3	Fastener schedule	Adds new language to "Note a" which addresses minimum average bending yield strengths.
R602.6.1	R602.6.1	Drilling and notching of top plate	Attachment method has changed for the required tie on a top plate notched > 50 percent. Six 16d nails changed to eight 16d nails.
R611	R611	Insulating concrete form wall construction	This section and its subsections have been significantly revised and expanded to address the irregularity limitations given in Chapter 3 and to expand the limits for wind and seismic conditions.

Code Section		Section Title	Change
2003	2000		
R702.1	R702.1	Interior covering/ General	Revised to reference Table R703.4 for interior masonry veneer construction, with exceptions for waterproofing and drainage requirements.
R702.4.2	R702.4.2	Ceramic tile/ Gypsum backer	Revised to prohibit installation of water-resistant gypsum board over a vapor retarder in a shower or tub compartment.
Table R703.7.3	Table R703.7.3	Allowable spans for lintels supporting masonry veneer	Revised to include spans for 5/16 inch thick steel lintels.

Code Section		Section Title	Change
2003	2000		
R802.1.3	R802.1.3	Fire-retardant-treated wood	Completely rewritten.
R802.10.5 Table R802.11	NEW	Truss-to-wall connection Required strength of truss or rafter connections to resist wind uplift forces	Requires truss-to-wall connectors which are subject to wind pressures of less than 20 psf to be capable of resisting a minimum uplift of 175 pounds. Table R802.11 is completely rewritten

Code Section		Section Title	Change
2003	2000		
R905.2.7.1	R905.2.7.1	Ice protection	Allows the jurisdiction to mandate ice protection by inserting the requirement in Table R301.2(1). Unconditioned detached accessory structures are now exempt from ice barrier requirements. New ice shield reference for underlayment indicated in Sections R905.4.3, R905.5.3, R905.6.3, R905.7.3, and R905.8.3.
R907.3	R907.3	Reroofing/ Recovering versus replacement	Existing asphalt shingles no longer must be removed prior to reroofing in areas prone to severe hail damage.

Code Section		Section Title	Change
2003	2000		
R1001.6.1	NEW	Spark arrestors	New section provides requirements for spark arrestors.
R1003	R1003	Masonry fireplaces	Some sections have been rearranged. New opening sentence for steel fireplace units. New section on dampers requires they be located a minimum of 8 inches above the top of the fireplace opening.
R1006	NEW	Masonry heaters	A masonry heater shall be installed according to: <ul style="list-style-type: none"> <li>• The terms of its listing; or</li> <li>• ASTM E1602</li> </ul>

Code Section		Section Title	Change
2003	2000		
N1101.1	N1101.1	Scope	Exempts unconditioned portions of structures from compliance with Chapter 11 where separated by building envelope assemblies from the remainder of the building, but still requires compliance with the chapter's provisions for building, mechanical and service water heating systems.
N1102.1	N1102.1	Thermal performance criteria	Revised to limit the use of the IECC to Chapters 4 and 5 for building envelope compliance.
N1102.1.11	NEW	Recessed lighting fixtures	New prescriptive requirements for recessed lighting fixtures installed in the building envelope.

Code Section		Section Title	Change
2003	2000		
NA	M1201.3	Conformity	Deleted without substitution.

Code Section		Section Title	Change
2003	2000		
M1411.3.2	NEW	Drain pipe materials and sizes	New material and size requirements for components of the condensate disposal system.

Code Section		Section Title	Change
2003	2000		
M2001.3 M2002.5	NEW	Valves Boiler low-water cutoff	New requirements for boiler and water-heater shutoff valves and boiler low-water cutoff control.
M2004.1	M2004.1	Water heaters used for space heating/General	Water heaters used for space heating are now also required to conform to Chapter 28 (Water heaters).
M2006.1	M2006.1	Pool heaters/General	Revised to require electric pool and spa heaters to be tested in accordance with UL 1261.

Code Section		Section Title	Change
2003	2000		
M2101.10	NEW	Hydronic piping/Tests	Requires testing of hydronic piping at a pressure of not less than 100 psi for not less than 15 minutes.

Code Section		Section Title	Change
2003	2000		
M2202.3	M2202.3	Flexible connectors	Revised to require flexible connectors in special piping systems to be listed and labeled in accordance with UL 536.
M2204.1	M2204.1	Pumps	Revised to require automatic pumps utilized in special piping and storage systems to be listed and labeled in accordance with UL 343.

Code Section		Section Title	Change
2003	2000		

G2408.4	NEW	Clearances from grade	Equipment and appliances installed at grade level must be supported on a concrete slab or other approved material extending above adjoining grade or be suspended at least 6 inches above adjoining grade.
G2408.5	NEW	Clearances to combustible construction	Clearances to combustibles are required to be maintained as specified in the listing and manufacturer's instructions, as reduced in accordance with Section G2409.
G2434.1	G2433.1	Vented gas fireplaces/ General	New section requires vented gas fireplace heaters to be installed in accordance with the manufacturer's installation instructions, tested in accordance with ANSI A21.50, and designed and equipped as specified in Section G2432.2.

Code Section		Section Title	Change
2003	2000		
P2503.5.2	P2503.5.2	Finished plumbing	Revised to require the DDV system smoke-test to have a duration of not less than 15 minutes.

Code Section		Section Title	Change
2003	2000		
P2602.2	NEW	Flood-resistant installation	New requirements for water-supply and sewage-disposal systems in areas prone to flooding.

Code Section		Section Title	Change
2003	2000		
P2705.1	P2705.1	Installation/General	Revised to require not less than 15 inches from the centerline of a bidet to the outermost rim of an adjacent water closet. (Previously required 30 inches minimum center to center.)
P2708.1	P2708.1	Showers/General	Revised to require a minimum of 900-square-inch area and 30 inches minimum dimension at the interior of showers, as measured at the top of the threshold, continued for a minimum height of 70 inches above the drain inlet.
P2714.2	NEW	Moveable sink systems	New section requires compliance with ASME A112.19.12.
P2722.1	P2722.1	Fixture fitting/ General	Revised to indicate that flexible water connections shall conform to Section P2904.7.
P2722.3	NEW	Individual pressure-balancing in-line valves for individual fixture fittings	Requires conformance with ASSE 1066 and installation in an accessible location. May not be substituted for shower valves required by Section P2708.3.
P2724.1	NEW	Temperature-actuated, flow-reduction devices for individual fixtures	Requires conformance with ASSE 1062. May not be substituted for shower valves by Section P2708.3.

Code Section		Section Title	Change
2003	2000		
P2801.4	P2801.4	Prohibited locations	Revised to provide prescriptive requirements for water heaters installed in dedicated enclosures.
P2802.2	P2802.2	Temperature control	Master thermostatic mixing valves, where required, shall comply with ASSE 1017 and temper the domestic water to 140°F or less.

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Code Section		Section Title	Change
2003	2000		
P2902.2.6	NEW	Double check-valve assemblies	Requires conformance with ASSE 1015 or ASSE 1048. Must be capable of operation under continuous pressure.
Table P2903.6.1	NEW	Conversion from W.S.F.U. to G.P.M. flow rates	New table addressing the need to convert W.S.F.U. to G.P.M. Table 2903.8.1 has been revised to reference this table for g.p.m. flow rates.
P2903.9.3	P2903.9.3	Valve requirements	Revised to require valves serving individual fixtures, appliances, risers, and branches to be provided with an individual shutoff valve on the water supply pipe, except at tubs and showers.
Tables P2904.4.1 P2904.5	NEW	Water service pipe Water distribution pipe	New tables referencing separate standards for water service and water distribution pipe.
P2904.5.1	P2904.5.1	Under concrete slabs	Revised to permit galvanized steel pipe in compliance with this section under concrete slabs.
P2904.7	NEW	Flexible water connections	New section references ASME A112.18.6 and requires access to all flexible water connectors.
P2904.17	NEW	Press joints	New section provides requirements for press-type mechanical joints in copper tubing.

Code Section		Section Title	Change
2003	2000		
P3002.2	P3002.2	Building sewer	Revised to provide specific requirements for forced main sewer pipe.
P3005.1.1	P3005.1.1	Horizontal to vertical (multiple-connection fittings)	Revised to provide double sanitary tee pattern requirements.
P3005.1.7	NEW	Change in size	New section requires drainage piping not be reduced in size in the direction of flow. A 4-inch by 3-inch water closet connection, however, is not considered a reduction in size.
P3005.2	P3005.2	Drainage pipe cleanouts	Pressurized building drains and building sewers that convey the discharge of automatic pumping equipment to a gravity drainage system are now exempt from the requirements of this section.
P3005.4	P3005.4	Drain pipe sizing	Revised to indicate that drainage pipe size shall not be reduced in size in the direction of flow.

Code Section		Section Title	Change
2003	2000		
P3105.1	P3105.1	Distance of trap from vent	New exception does not limit the developed length of the fixture drain from trap weir to vent fitting for self-siphoning fixtures, such as water closets.
P3111.1	P3111.1	Type of fixtures	A combination waste and vent system shall not receive the discharge of a food waste grinder.
P3111.2	P3111.2	Installation	The maximum vertical distance for vertical pipe in a combination drain and vent system has been revised to 8 feet.
P3114.4	P3114.4	Location	Stack-type air admittance valves shall be located a minimum of 6 inches above the flood level rim of the highest fixture vented.

Code Section		Section Title	Change
2003	2000		
E3802.11	NEW	Bedroom outlets	New section requires arc-fault circuit interrupters in bedrooms for all branch circuits that supply 15- and 20-ampere receptacle outlets.

Revised and updated.

Code Section		Section Title	Change
2003	2000		
AG105.2	AG105.2	Outdoor swimming pool	Provides maximum mesh sizes for chain link fences serving as a required barrier.
AG106	NEW	Entrapment protection for swimming pool and spa suction outlets	Provides suction fitting, atmospheric vacuum relief system, dual drain separation and pool cleaner fitting requirements.

Code Section		Section Title	Change
2003	2000		
AH107	NEW	Special provisions for aluminum screen enclosures in hurricane-prone regions	Provides general requirements, definitions and structural design criteria for



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# 2003 UPDATES

## International Property Maintenance Code

Code Section		Section Title	Change
2003	2000		
101.3	101.3	Intent	Added reference to IEBC.
102.2	102.2	Maintenance	Added paragraph on owner, operator or occupant not removing or shutting off required utilities or equipment.
102.3	102.3	Application of other codes	Removed reference to International Building, Plumbing, Fuel Gas, Mechanical and ICC Electrical Codes. Added reference to IEBC.
NA	103.4	Restriction of employees	Section deleted.
106.3	106.3	Prosecution of violation	Added paragraph allowing a lien to be place on real estate.
107.1	107.1	Notice to person responsible	Simply now requires violation notice to be served only to the person responsible for the violation.
107.2	107.2	Form	Added a sixth item to be on the form requiring a statement about the right to file a lien.
108.5	108.5	Prohibited occupancy	Added sentence which requires structures condemned and placarded to be vacated.
111.1	111.1	Application for appeal	Removed claim of undue hardship as a base for an appeal.

Code Section		Section Title	Change
2003	2000		
201.5	201.5	Parts	Added "housekeeping unit."
202	202	General Definitions	Added definitions for "Easement," "Housekeeping unit," "Inoperable motor vehicle" and "Public way." Redefined definition of "Premises" to include easement and public way.



Code Section		Section Title	Change
2003	2000		
301.2	301.2	Responsibility	Added occupants of rooming unit and housekeeping unit as responsible for keeping a clean, safe and sanitary premise.
302.4	302.4	Weeds	Added paragraph on prosecution for failure to comply with cutting and destroying of weeds and cost of such removal.
Deleted	302.7.1 302.7.2	Gates Swimming pools	Relocated requirements for gates and swimming pools to Section 303 entitled Swimming Pools, Spas and Hot Tubs.
303	302.7.1 302.7.2	Swimming Pools, Spas and Hot Tubs	Relocated requirements for gates and swimming pools to Section 303. Added details on enclosures around swimming pools, spas and hot tubs containing water deeper than 24 inches.
304	303	Exterior Structure	Renumbered because of relocation of gates and swimming pools.
304.18 304.18.1 304.18.2 304.18.3		Building Security Doors Windows Basement Hatchways	Added detailed requirements for devices designed to provide security for occupants and property at doors, windows and basement hatchways.
305	304	Interior Structure	Renumbered because of relocation of gates and swimming pools.
306		Handrails and Guardrails	Added detailed requirements for handrails for more than four risers of stairways and requirements for guards for walking surfaces more than 30 inches above grade or floor.
307	306	Rubbish and Garbage	Renumbered.
307.2.2		Refrigerators	Added requirement to remove doors of refrigerators and similar equipment.
308	307	Extermination	Renumbered.

Code Section		Section Title	Change
2003	2000		
404.1	404.1	Privacy	Added housekeeping units.
Table 404.5	Table 404.5	Minimum Area Requirements	Deleted kitchen size requirements from table.

Code Section		Section Title	Change
2003	2000		
503.4		Floor surface	Requires a smooth, hard and nonabsorbent surface on floor in toilet rooms except for dwelling units.
505.4	505.4	Water heating facilities	Dropped the minimum water temperature down 10 degrees to the minimum required temperature of 110 F (49°C).

Code Section		Section Title	Change
2003	2000		
602.2	602.2	Residential occupancies	Raised the required minimum heating facilities to be capable of a temperature of 68°F for dwelling units.  Added an exception reducing the minimum heating facilities to be capable of a temperature of 65°F in areas with an average monthly temperature above 30 F.
602.3	602.3	Heat supply	Raised the minimum furnished heat to a temperature of 68°F. Added an exception (No. 2) reducing the minimum furnished heat to a temperature of 65°F in areas with an average monthly temperature above 30°F.

Code Section		Section Title	Change
2003	2000		
702.1	702.1	General	Added reference to the IFC.
702.4	702.4	Emergency escape openings	Added the requirement that the escape openings be maintained in accordance with the code in effect at time of construction. Section 702.4 also now allows bars, grilles and grates to be placed over such openings provided they meet the minimum net clear openings of the code in effect at time of construction.
704	704	Fire Protection Systems	This section has been completely rewritten.
704.1	704.2	General	Renumbered as Section 704.2 and added reference to the IFC.
704.2	704.1	Smoke alarms	Renumbered section and added smoke alarms required in dwelling units in listed locations.
704.3	704.3	Power source	Revised section to require smoke alarms to connect to commercial power source and battery backup.  Section also revised to allow battery only under certain conditions as an exception.
704.4		Interconnection	Section requires activation of all smoke alarms with any one smoke alarm activated with two exceptions.



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2003 UPDATES

# International Building Code

Code Section		Section Title	Change
2003	2000		
101.3	101.3	Intent	Indicates that a reasonable level of safety must be provided for fire fighters and other emergency responders.
106.2	106.2	Site	Title change. Requires details related to flood hazard areas to be indicated on the site plan.
109.3.3	109.3.3	Lowest floor level	Indicates that the optimal time to document the elevation of a structure's lowest floor.
302.1.1	302.1.1	Incidental use areas	Identifies the options that are available to the designer when a building contains a use that is listed in Table 302.1.1. Clarifies the classification of incidental use areas.
Table 302.1.1	Table 302.1.1	Incidental use areas	Identifies when assembly occupancies are accessory.
302.2	302.2	Accessory use areas	Editorial changes reformat the section for clarification.
302.3	302.3	Mixed occupancies	
302.3.1	302.3.2	Nonseparated uses	
Table 302.3.3	Table 302.3.3	Required Separation of Occupancies (Hours)*	Revises items in the table and footnotes to the table.
303.1	303.1	Assembly Group A	Clarifies when an occupancy is classified as an assembly group.
308	308	Institutional Group I	Provides language to clarify the classifications of Group I occupancies.
402.7.3	NEW	Anchor building separation	New language establishes the type of separation that is necessary between anchor buildings and the covered mall building.
402.14.4	402.14.4	Plastics other than foam plastics	Indicates foam plastic used in signs must comply with the applicable provisions.
402.14.5	402.14.5	Foam plastics	
402.14.5.1	402.14.5.1	Density	
404.1.1	404.1.1	Definition	The word "level" was deleted to clarify the definition of "Atrium."
404.5	404.5	Enclosure of atriums	Establishes exceptions to the atrium enclosure provisions.
406.3.2	406.3.2	Definitions	Revises the definition of "Open parking structure."
406.3.4	406.3.4	Uses	Establishes open parking garage requirements and introduces new code regulations.
406.3.5	406.3.5	Area and height	
406.3.5.1	406.3.5.1	Single use	
406.6.1	406.6.1	General	Title change – 406.6.2. Establishes a Group S-1 classification, which includes minor repair areas of a "service station." Revises floor surface provisions. Coordinates provisions with the <i>International Mechanical Code</i> (IMC®).
406.6.2	406.6.2	Mixed uses	
406.6.3	406.6.3	Ventilation	
406.6.4	406.6.4	Floor surface	
406.6.5	406.6.5	Heating equipment	
410.2	410.2	Definitions	Revises the definition of "Stage." Replaces the word "spectator" with the word "assembly".
410.3.1.1	NEW	Stage height and area	New language indicating the dimensional considerations for stages.
504.2	504.2	Automatic sprinkler system increase	Title change. Revises language to be consistent with terminology of the code, and provides cross references to other code provisions.
506.2.1	506.2.1	Width limits	Indicates that buildings which have unlimited area at 60 feet may have additional area calculations between 30 and 60 feet.
506.3	506.3	Automatic sprinkler system increase	Adds language to correlate with Equations 5-1 and 5-2.
506.4	NEW	Area determination	Provides new language for calculating the maximum area of a building.
Table 601	Table 601	Fire-resistance Rating Requirements For Building Elements (hours)	Footnote indicates when FRTW is permitted in Type I and II construction.

3105.2	NEW	Definition	The definition of "Retractable awning" is added.
3109.5	NEW	Entrapment avoidance	New section establishes requirements to reduce the possibility of evisceration, body entrapment and hair entrapment/entanglement.
3407.2	NEW	Flood hazard areas	Indicates code provisions for historic buildings located in flood hazard areas.

Code Section		Section Title	Change
2003	2000		
404.5	404.5	Enclosure of atriums	Addresses glass block used as an opening protective and its installation requirements.
2110.1.1	2110.1.1	Limitations	
704.3	704.3	Buildings on the same lot	Does not regulate the walls of a two-story court as if it were the same as an exterior wall that faces a lot line.
705.1	705.1	General	Replaces the word "property" with "lot" in the fire-wall provisions.
910.3.3	910.3.3	Vent locations	
706.1	706.1	General	Identifies that the section is applicable to all fire barriers.
707.4	707.4	Fire-resistance rating	Title change -- 706.3.1 and 706.3.2. Indicates the method of computing the number of stories connected and that the wall of the shaft (the fire barrier) provides the separation, and not the shaft itself.
706.1	706.1	General	
706.3.1	706.3.1	Shaft enclosures	
706.3.2	706.3.2	Exit enclosures	
1005.3.2	1005.3.2	Enclosures	
711.3.2	710.3.1.1	Access doors	Focuses on the requirement to test and label the access doors.
712.3.2	711.3.2	Membrane penetrations	Includes additional fire-resistance-rated membrane penetration exceptions.
713.4	712.4	Exterior curtain wall/floor intersection	Indicates void spaces must be protected to prevent the interior passage of fire. Establishes that only the opening between the floor assembly and the exterior curtain wall be sealed in the plane of the floor assembly and the exterior curtain wall be sealed in the plane of the floor to maintain the fire-resistance rating of the floor to the exterior wall.
715.2	NEW	Fire-resistance-rated glazing	Indicates label and test provisions for glazing.
715.3.3	714.2.3	Door assemblies in corridors and smoke barriers	Title change. Maintains consistency in code language.
715.4.2	NEW	Nonsymmetrical glazing systems	Indicates the test requirements to establish the fire-protection rating of nonsymmetrical glazing.
715.4.9	714.3.9	Labeling requirements	Indicates label and test provisions for glazing.
716.5.3.1	715.5.3.1	Penetrations of shaft enclosures	Identifies exceptions to fire and smoke damper requirements.
716.6.1	715.6.1	Through penetrations	Establishes exceptions to fire damper provisions.
716.6.2	715.6.2	Membrane penetrations	Includes exhaust duct provisions in a dwelling unit or tenant space.
717.2.6	716.2.6	Architectural trim	Identifies fireblocking exceptions that clarify three-story one-and two-family dwellings are not covered in the scope of the IBC.
719.1	718.1	General	Denotes pipe insulation and duct and pipe coverings and linings in plenums must comply with the IMC. Replaces the words "breather paper" with the terminology "vapor-permeable membranes."
909.11	909.11	Power systems	Identifies the type of separation and enclosure (i.e., fire barrier) to protect the standby power and transformer switches.
1403.6	1403.6	Flood resistance	Adds treatments that meet the intent of flood-damaged materials.
1407.1	1407.1	General	Recognizes the use of steel skins as well as aluminum skins.

1407.9	1407.9.1	Surface-burning characteristics	Title change – 1407.10.1.1. Simplifies the requirements for aluminum composite materials (ACM).
1407.11.1	1407.10.1	Installations up to 40 feet in height	
1407.11.1.1	1407.10.1.1	Fire separation distance of 5 feet or less	
1407.11.1.2	1407.10.2	Fire separation distance greater than 5 feet	
1407.11.2.1	1407.10.2.2	Installations up to 50 feet in height	
1407.11.2.2	1407.10.2.2	Limitations	
1407.12	1407.11	Type V construction	Removes the thickness limit on the ACM for testing.
1407.10.4	1407.9.4	Full-scale tests	
1509.5	1509.5	Towers, spires, domes and cupolas	Allows rooftop architectural embellishments of reasonable height to be supported on Type III, IV and V construction.
1509.5.1	1509.5.1	Noncombustible construction required	Allows rooftop architectural embellishments of reasonable height (less than 40 feet) and size (less than 100 square feet) to be supported on Type III, IV and V construction.
2603.4	2603.4	Thermal barrier	Adds large-scale fire test NFPA 286 to address the fire performance of interior finish.
2603.8	2603.7	Special approval	
2603.7	NEW	Plenums	Indicates foam plastic insulation must only be used as wall or ceiling interior finish in plenums or in any other compartment when the applicable exceptions are met.

Code Section		Section Title	Change
2003	2000		
1001 through 1025	1001 through 1025		A new format subdivides Chapter 10 into 25 sections versus the previous nine sections. The intent is to make the provisions for a given topic easier to locate. The content is generally in the same order to provide a smooth transition.
1002.1	1002.1	Definitions	Added definition of "Scissor stair" and "Winders."
1005.2	1003.2.3.1	Door encroachment	Title change – 105.3.2. Establishes that the protection and means of egress specified for dwelling units are also applicable to sleeping units.
1003.2	1003.2.4	Ceiling height	
1008.1.8.4	1003.3.1.8.1	Bolt locks	
1009.11	1003.3.3.11	Handrails	
1019.1	1005.3.2	Enclosures required	
1007.3	1003.2.13.2	Enclosed exit stairways	Title change – 1003.2.13.2. Establishes that the unenclosed exit stair can be considered part of an accessible means of egress.
1007.8.2	NEW	Exterior exit stairway	Indicates that exterior areas of rescue assistance must have the same identification as interior areas of refuge. Any stairs leading from the exterior area of rescue assistance must be 48 inches clear between handrails.
1007.8.3	1007.8.3	Identification	
1008.1.8	NEW	Door operation	Sections dealing with door operation renumbered and grouped. Identifies additional door hardware requirements.
1008.1.8.1	NEW	Hardware	
1008.1.8.3	1003.3.1.8	Locks and latches	
1008.1.8.4	1003.3.1.8.1	Bolt locks	
1008.1.8.5	NEW	Unlatching	
1008.1.8.6	1003.3.1.8.2	Delayed egress locks	
1008.1.8.2	1003.3.1.8.3	Hardware height	
1008.1.8.7	1003.3.1.8.4	Stairway doors	
1015.1	1004.2.4	Travel distance limitations	Title change. States how travel distance is addressed for open exit stairs and exit access stairs.
1013.4.1	1004.3.1.1	Groups B and M	Title change. Regulates aisle width based on the occupant load served.
Table 1016.1	Table 1004.3.2.1	Corridor Fire-Resistance Rating	Group R occupancy has a reduction for corridors in sprinklered buildings to 1/2-hour rating.

1016.5	1004.3.2.5	Corridor continuity	Deletes Exception 2.
1022.1	1005.3.6	Exterior exit stairways	Title change – 1005.3.6. Includes ramps as exterior exit elements and systems.
1022.2	1005.3.6.1	Use in a means of egress	
1022.3	1005.3.6.2	Open side	
1022.4	1005.3.6.3	Side yards	
1022.5	1005.3.6.4	Location	
1022.6	1005.3.6.5	Exterior stairway protection	
1024.1	NEW	General	Revised definition "Bleachers," "Folding," and Telescopic seating," "Grandstands." Deleted definitions for "Footboards," "Open air seating grandstands and bleachers," and "Reviewing stands." Correlates the provisions with a proposed ANSI standard for bleacher.
1024.1.1	NEW	Bleachers	
1002	1002	Definitions	
1011.1	1003.2.10.1	Where required	
1013.4	1004.3.1	Aisles	
1024.9	1008.7	Assembly aisles are required	
Table 1024.10.1	Table 1008.8.1	Smoke-Protected Grandstand Assembly Aisles and Accessways	Identifies the applicable group occupancy as A-1.
Table 1607.1	Table 1607.1	Accessways Uniformly Distributed Live Loads and Minimum Concentrated Live Loads	
3401.1	3401.1	Scope	
1024.4	1008.3	Foyers and lobbies	Title change – 1003.2.13. Coordinates mezzanines in assembly spaces with accessible means of egress requirements.
1007.1	1003.2.13	Accessible means of egress required	
1024.5.1	1008.4.1	Enclosure of balcony openings	
1024.14.2	1008.12.2	Sight-constrained guard heights	Coordinates with bleacher safety provisions.
1025.1	1009.1	General	Indicates that where a basement contains a bedroom, one emergency egress and rescue opening is required in the bedroom, but an additional opening is not required in other habitable spaces in the basement. Establishes that basements without habitable spaces are exempt from emergency escape requirements.
202	202	Definitions	A series of code changes was proposed in the 2000 code change cycle as a response to the Department of Housing and Urban Development's (HUD) comparison of the 2000 IBC and the Fair Housing Act (FHA). The resulting model code requirements are recognized by HUD as providing "safe harbor" for compliance with FHA requirements. The main areas addressed by these changes included defining the terms associated with accessible residences (i.e., dwelling units and sleeping units) and revising scoping requirements to include facilities in which people live where the accommodations are not necessarily "dwelling units" (e.g., dormitories, boarding houses, assisted living centers, extended-stay hotels, shelters, etc.).
308	308	Institutional Group I	
319	319	Residential Group R	
Chapter 11	Chapter 11	Accessibility	Chapter 11 of the 2000 IBC was developed utilizing the <i>Proposed Rule for a New Americans with Disabilities Act Accessibility Guidelines (ADAAG) and Architectural Barriers Act (ABA) Accessibility Guidelines</i> , November 16, 1999 as part of the criteria. A Draft Final ADAAG and ABA was published on April 2, 2002. A series of code changes was proposed as part of the last code change cycle for coordination with this document. Some of the items included were: expanded entrance criteria; expanded requirements and applications for platform lifts; new requirements for detention and correction facilities; clarification of requirements for operable parts; and new and updated requirements for assembly seating criteria. The goal is to have the requirements in the new ADAAG and the 2003 IBC as coordinated as possible.
Chapter 11	Chapter 11	Accessibility	
3409	3408	Accessibility for Existing Buildings	
Appendix E	Appendix E	Supplementary Accessibility Requirements	Requirements for assembly seating areas were extensively revised. The term "Multi-level assembly seating" was added to clarify that separate rows or tiers did not constitute separate levels. New requirements for boxes, integration, companion seating and designated aisle seats were added for coordination with the new ADAAG. The "cluster" requirements were deleted in favor of dispersion requirements that will be in ICC/ANSI A117.1-2003.
1102.1	1102.1	Definitions	
1108.2	1107.2	Assembly area seating (and all subsections)	

3409.3	3408.3	Change of occupancy	Minimum requirements for accessibility in existing buildings undergoing a "change of occupancy" were established. This is especially important when only a portion of a building is being altered. An accessible route must be provided into and throughout the space as a minimum.
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Code Section		Section Title	Change
2003	2000		
202	202	Definitions	Adds a definition for "unit skylight."
1602	1602	Definitions	Revises the definitions for clarification in terminology (e.g., "Flexible diaphragm," "Dead loads" and "Loads").
1603.1.4	1603.1.4	Wind design data	Provides consistency between the wind and seismic information required on construction documents and indicates additional information that must be on the construction documents.
1603.1.5	1603.1.4	Earthquake design data	
Table 1604.3	Table 1604.3	Deflection Limits	Includes a footnote that indicates one uses twice the length of the cantilever to calculate the deflection limit for a cantilever member. Includes a footnote that indicates the deflection requirements for sunroom additions constructed of aluminum structural framing and sandwich panels.
Table 1607.1	Table 1607.1	Minimum Uniformly Distributed Live Loads and Minimum Concentrated Live Loads	Revises Items 16, 27 and 28 regarding garages, residential and grandstands, and provides consistency with the requirements in referenced standard ASCE 7.
1607.10	1607.10	Distribution of floor loads	Clarifies the live load reduction requirements, and provides consistency with the requirements in referenced standard ASCE 7.
1607.11.1	1607.11.1	Distribution of roof loads	Includes loads on adjacent or alternating spans for roof live loads.
1609	1609	Wind Loads	Revises the simplified provisions and coordinates with ASCE 7-02. Clarifies and establishes wind pressure provisions. Establishes that foundations are covered by the scope and that the weight of the foundations and soil above them must be included in dead loads for anchorage against overturning, uplift and sliding calculations. Indicates that the simplified provisions of Section 1609.6 require an exposure category to be determined for each wind direction and the most restrictive exposure category must be analyzed.
1610.1	1610.1	General	Indicates active and at-rest pressures for retaining and basement walls.
Table 1610.1	Table 1610.1	Soil Lateral Load	
1612.4	1612.4	Design and construction	Establishes the flood hazard-resistant construction standard for one- and two-family dwellings to use in special flood hazard areas. Deletes the terminology "certification" and "certify" with the requirement for an analysis to be performed and sealed by a registered design professional.
1612.5	1612.5	Flood hazard documentation	
Chapter 35	Chapter 35	Referenced Standards	Establishes that the seismic provisions of ASCE 7 are an acceptable alternative. Provides conditions that are consistent with ASCE 7. Allows incidental and minor repairs and alterations without requiring complete upgrades to be consistent with other code language as long as unsafe conditions are not created or existing hazardous conditions are not made more severe.
1614.1	1614.1	Scope	
1614.2	1614.2	Change of occupancy	
1614.3	1614.3	Alterations	
Table 1615.1.2(1)	Table 1615.1.2(1)	Values of Site Coefficient $F_a$ as a Function of Site Class AMD Mapped Spectral Response Acceleration at Short Periods ( $S_a$ ) <sup>a</sup>	Provides a value for Type E soil, and indicates exceptions for liquefiable soils.
Table 1615.1.2(2)	Table 1615.1.2(2)	Values of Site Coefficient $F_v$ as a Function of Site Class AMD Mapped Spectral Response Acceleration at 1 - Second Periods ( $S_a$ ) <sup>a</sup>	
1615.2.5	1615.2.5	Design spectral response coefficients	Establishes the guidance used for determining the parameters $S_{DS}$ and $S_{DI}$ when utilizing a site-specific spectrum.
1616.3	1616.3	Determination of seismic design category	Provides an exception to determine applicable seismic values. This reduces to seismic design category for many buildings located in the area east of the Rocky Mountains.
1616.5	1616.5	Building configuration	Indicates the partial provisions that must be met in ASCE 7.
1616.6	1616.6	Analysis procedures	

1617	1617	Earthquake Loads—Minimum Design Lateral Force and Related Effects	Revised to indicate partial provisions that must be met in ASCE 7. Deleted the equivalent lateral force analysis procedure in 1617.4 Provides consistency in the terminology used throughout the code and revises the structure of the organization of the sections for clarification. Includes values for prestressed masonry. Provides consistency with NEHRP Recommended Provisions.
1618	1618	Dynamic Analysis Procedure	Deleted the details for the dynamic analysis method in favor of a reference to the ASCE 7 provisions.
1619.1	1619.1	Analysis procedure	References ASCE 7 provisions for soil-structure interaction effects.
1620	1620	Earthquake Loads—Design, Detailing Requirements and Structural Component Load Effects	Includes provisions that are consistent with ASCE 7 and NEHRP Recommended Provisions.
1621	1621	Architectural, Mechanical Electrical Component Seismic Design Requirements	Indicates the partial provisions that must be met in ASCE 7. Deleted the detailed design provisions.
1622	1622	Nonbuilding Structures Seismic Design Requirements	Revises the format of this section, and indicates the partial provisions that must be met in ASCE 7. Deleted the detailed design provisions.
1623.1	1623.1	Design requirements	Indicates the partial provisions that must be met in ASCE 7. Deleted the detailed design provisions.
Table 1704.5.1	Table 1704.5.1	Level 1 Special Inspection	Revised special inspections for masonry to be consistent with the latest masonry standards.
Table 1704.5.3	Table 1704.5.3	Level 2 Special Inspection	
1707.3	1707.3	Structural wood	Establishes an exception for wood sheathing used for shear walls, shear panels, and diaphragms that carry nominal shear forces by not requiring special inspections based upon certain spacing of the nails, screws, or fasteners used to attach the sheathing to the structural framing.
1707.6	1707.6	Architectural components	Provides exceptions for the special inspection of interior and exterior architectural components.
1708.1	1708.1	Masonry	Provides a clarification in code terminology and identifies quality assurance and special inspection provisions.
1708.1.1	1708.1.1	Empirically designed masonry and glass unit masonry in nonessential facilities	
1708.1.2	1708.1.2	Empirically designed masonry and glass unit masonry in essential facilities	
1708.1.3	1708.1.3	Engineered masonry in nonessential facilities	
1708.1.4	1708.1.4	Engineered masonry in essential facilities	
Table 1708.1.2	Table 1708.1.2	Level 1 Quality Assurance	
Table 1708.1.4	Table 1708.1.4	Level 2 Quality Assurance	
1715.1.4	1715.1.4	Design value modifications for joist hangers	Indicates load duration values.
1802.3.2	1802.3.2	Expansive soils	Includes a reference to ASTM D 4829 that determines the expansion index of soils.
1805.2.1	1805.2.1	Frost protection	Added reference to the ASCE 32 regarding frost-protected shallow foundations.
Table 1805.4.2	Table 1805.4.2	Footings Supporting Walls of Light-Frame Construction <sup>a,b,c,d</sup>	Revised the table entries regarding the required footing thickness. Deleted the table entries regarding the required thickness of a foundation wall.
1806	1610.2	Retaining Walls	Relocated retaining wall requirements to be a separate section.
1808.2.8.3	1808.2.8.3	Load tests	Revised the acceptance criteria for pile load tests.
1808.2.8.3.1	1808.2.8.3.1	Load test evaluation	



202	202	Definitions	Provides provisions for using controlled low-strength materials as backfill.
1803.6	NEW	Controlled low-strength material (CLSM)	
1805.1	1805.1	General	
1805.7.3	1805.7.3	Backfill	
1805.8.3	1805.8.3	Removal of expansive soil	
1803.2	1803.2	Placement of backfill	
1805.9	1805.9	Seismic requirements	
1808	1807	Pier and Pile Foundations	Provides clarification for the term "pile cap." Establishes pile cap connection requirements. Provides consistency with NEHRP Recommended Provisions. Establishes a provision to limit the damage to batter pile-to-pile cap connections.
1808.2.23.2	1807.2.23.2	Seismic Design Category D, E or F	Provides ACI 318 and one- and two-family dwelling exceptions.
1809.2.3.2.1	1808.2.3.2.1	Design in Seismic Design Category C	Provides consistency with NEHRP Recommended Provisions.
1809.2.3.2.2	1808.2.3.2.2	Design in Seismic Design Category D, E or F	
1810.1.2.1	1809.1.2.1	Reinforcement in Seismic Design Category C	
1810.1.2.2	1809.1.2.2	Reinforcement in Seismic Design Category D, E or F	
Chapter 19	Chapter 19	Concrete	Provides regulations for concrete.
1903.8	NEW	Glass fiber reinforced concrete	Establishes a provision to assure the quality of glass fiber reinforced concrete (GFRC).
Chapter 35	Chapter 35	Referenced Standards	The modifications were revised to be consistent with ACI 318-02.
1908	NEW	Modifications to ACI 318	
1910.2.4	1910.2.4	Special reinforcement concrete shear walls	Establishes provisions for concrete shear walls.
1910.4.1	1910.4.1	Seismic-force-resisting systems	
1913	1913	Anchorage to Concrete-Strength Design	Referenced the anchor design requirements in Appendix D of ACI 318-02 and deleted the detailed design method from the IBC.
1405.5	1405.5	Anchored masonry veneer	Revises and updates masonry veneer regulations. Provides consistency with ACI 530.1/ASCE 6/TMS 602.
1405.9	1405.9	Adhered masonry veneer	
Table 1617.6.2	Table 1617.6	Design Coefficients and Factors For Basic Seismic-Force-Resisting Systems	
Table 1704.5.1	Table 1708.1.1	Level 1 Special Inspection	
Table 1704.5.3	Table 1708.1.2	Level 2 Special Inspection	Revised cold and hot weather masonry construction requirements.
2104.3	2104.3	Cold weather construction	
2104.4	2104.4	Hot weather construction	Provides consistency with NEHRP Recommended Provisions.
2106.1	2106.1	Seismic design requirements for masonry	
2106.1.1.3	2106.1.1.5	Special prestressed masonry shear walls	Title change. Indicates provisions for special prestressed masonry.
2106.3.1	2106.3.1	Masonry walls not part of the lateral-force-resisting system	Title change. Establishes that it applies to Seismic Design Category B and higher.
2108	2108	Strength Design of Masonry	The detailed design procedure was deleted in favor of referencing ACI 530/ASCE 5/TMS 402.
2111	2111	Masonry Fireplaces	Provides consistency with the <i>International Residential Code</i> ® (IRC®).
Chapter 22	Chapter 22	Steel	Completely reformatted.
2207.2	2207.2	Seismic requirements for steel cable	Provides consistency with ASCE 19.
2211	2211	Cold-Formed Steel Light-Framed Shear Walls	Establishes installation provisions for cold-formed steel framing.

2303.2	2303.2	Fire-retardant-treated wood	Reformats the code section for clarification.
Table 2305.3.3	Table 2305.3.3	Maximum Shear Wall Aspect Ratios	Provides consistency with NEHRP Recommended Provisions and adds a footnote to include an aspect ratio.
2305.3.7.2	NEW	Perforated shear walls	Title change - Table 2305.3.7.2.
Table 2305.3.7.2	Table 2305.3.7.2	Shear Resistance Adjustment Factor, $C_e$	Provides consistency with NEHRP Recommended Provisions.
2303.7	NEW	Shrinkage	Includes provisions for the shrinkage of wood members.
2304.3.3	NEW	Shrinkage	
2305.3.8	2305.3.8	Summing shear capacities	Provides consistency with NEHRP Recommended Provisions. Expands the options in the exception for shear walls.
2306.3.2	2306.3.2	Wood structural panel diaphragms	Title change - 2306.4.1. Establishes high-load diaphragm regulations.
Table 2306.3.2	Table 2306.4.1	Allowable Shear in Pounds Per Foot for Horizontal Blocked Diaphragms Utilizing Multiple Rows of Fasteners (High Load Diaphragms) With Framing of Douglas Fir, Larch or Southern Pine for Wind or Seismic Loading	
2306.4.4	2306.4.4	Fiberboard shear walls	Indicates the shear resistance values for vertical panels that may be used for horizontally applied wall panels.
2308.9.3	2308.9.3	Bracing	
Table 2308.9.3(4)	Table 2308.9.3(4)	Allowable Shear Values (plf) for Wind or Seismic Loading on Vertical Diaphragms of Fiberboard Sheathing Board Construction For Type V Construction Only <sup>a, b, c, d, e</sup>	
2308.8.2.1	2308.8.2.1	Engineered wood products	Indicates that engineered wood products must be installed without cuts, notches and holes unless considered in the design.
Figure 2308.9.3	NEW	Basic Components of the Lateral Bracing System	Added new figure for the conventional light-frame construction lateral bracing system.
2308.11.2		Concrete or masonry	Added exceptions for masonry veneer located in Seismic Design Categories B and C.
2404.2	2404.2	Sloped glass	Includes sloped glazing and unit skylight regulations.
2405.4	2405.4	Framing	
2405.5	NEW	Unit skylights	
2610.1	2610.1	Light-transmitting plastic glazing of skylight assemblies	
2407.1	2407.1	Materials	Deletes ANSI Z97.1 for glass in handrails and guards.
2408	2408	Glazing in Athletic Facilities	Includes glazing regulations for athletic facilities. Provides consistency with CPSC 16 CFR 1201 for Category II glazing.
2508.5	NEW	Horizontal gypsum board diaphragm ceilings	Allows gypsum board to be installed as a horizontal diaphragm ceiling membrane.
Table 2508.5	NEW	Shear Capacity for Wood Framed Gypsum Board Diaphragm Ceiling Assemblies	



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